-	Application No.	Applicant(s)
	10/658,406	DING, HEPING
Notice of Allowability	Examiner	Art Unit
	Viigu P. Chawan	2626
	Vijay B. Chawan	2626
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in to) or other appropriate commun RIGHTS. This application is sul	his application. If not included ication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Applicants correspond</u>	ndence filed 9/13/07.	
2. X The allowed claim(s) is/are <u>1-5,8,10-13,17-21 and 23-29</u> .		
3. Acknowledgment is made of a claim for foreign priority u	inder 35 U.S.C. § 119(a)-(d) or	(f).
a) All b) Some* c) None of the:		
1. Certified copies of the priority documents hav	e been received.	
2. Certified copies of the priority documents hav	e been received in Application	No
3. Copies of the certified copies of the priority do	ocuments have been received i	n this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsper		PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	_·	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.
Attachment(s)	5 	15 4 4 5 6
1. Notice of References Cited (PTO-892)	<u> </u>	rmal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sum Paper No./M	ail Date .
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		mendment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		atement of Reasons for Allowance
	9.	Vijay B. Chawan Primary Examiner Art Unit: 2626

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Curtis Behmann on 9/21/07.

The application has been amended as follows: Please replace claim 10 with the following claim:

The method of claim 9 8, wherein the noise component is 10. (Amended) introduced as perturbation to a magnitude of an audio segment component in the frequency domain, further comprising the steps of:

transforming the audio segment component from the time domain to the frequency domain;

calculating the magnitude of each frequency component of the audio signal component;

determining a magnitude and sign for each frequency component perturbation; perturbing each frequency component by the determined frequency component perturbation;

quantizing each perturbed frequency component; and,

transforming the audio segment component back to the time domain from the frequency domain.

2. The following is an examiner's statement of reasons for allowance: Claims 1-5, 8, 10-13, 17-21, and 23-29 are allowed. Applicant teaches a method of transmitting an audio stream, comprising estimating a perceptual mask for the audio stream, the perceptual mask being based on a human auditory system perceptual threshold, dynamically allocating a hidden sub-channel below the estimated perceptual mask for the audio stream, the dynamic allocation being based on characteristics of the audio stream, and generating a composite audio stream, the composite audio stream including uncoded narrowband components of the audio stream for which the perceptual mask was estimated, the composite audio stream further including additional payload in the hidden sub-channel, the uncoded narrowband components of the composite audio stream being audible to a human ear at a receiver without decoding, an, transmitting the audio stream. The cited prior art alone or in combination does not teach or fairly disclose the claimed combination of features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-7601. The examiner can normally be reached on Monday Through Friday 6:30-3:00.

VIJAY CHAWAN PRIMARY EXAMINER

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vijay B. Chawan Primary Examiner

Art Unit 2626

Vbc 9/24/07